

10/006630 PRO
12/05/01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT(S): Jindal *et al.*SERIAL NO.: Divison of U.S.S.N. GROUP NO.: 1627
09/267,993 (prior application)FILING DATE: December 5, 2001 EXAMINER: B. Celsa
(prior application)TITLE: High Speed, Automated, Continuous Flow, Multi-Dimensional
Molecular Selection and Analysis**Box PATENT APPLICATION**

U.S. Patent and Trademark Office

P.O. Box 2327

Arlington, VA 22202

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the provisions of 37 C.F.R. 1.97 and 1.98, Applicants hereby make of record the patents and publications listed on the accompanying Form PTO-1449, and other information contained herein, for consideration by the Examiner in connection with the examination of the above-identified division patent application. Each of the patents and printed publications was submitted in co-pending predecessor application U.S. Serial No. 09/267,993, filed March 12, 1999. Accordingly, copies of the same are not enclosed in accordance with 37 C.F.R. 1.98(d).

REMARKS

In accordance with the provisions of 37 C.F.R. 1.97, this statement is being filed (CHECK ONE):

- (1) within three (3) months of the **filng date** of a national application other than a continued prosecution application under 37 C.F.R. 1.53(d), or within three (3) months of the **date of entry of the national stage** as set forth in 37 C.F.R. 1.491 in an international application, or before the mailing of the **first Office action** on the merits, or before the mailing of a **first Office action** after the filing of a request for continued examination under 37 C.F.R. 1.114; or
- (2) after the period defined in (1) but before the mailing date of a **final action** or a **notice of allowance** under 37 C.F.R. 1.311, and
- the requisite Statement is below, OR

- the requisite fee under 37 C.F.R. 1.17(p), namely \$180.00, is included herein, or
- (3) after the mailing date of a **final action or notice of allowance** but before the payment of the **issue fee**, **AND**
 - the requisite Statement is below, **AND**
 - the requisite petition fee under 37 C.F.R. 1.17(p), namely \$180.00 is included herein.

It is respectfully requested that each of the patents and publications listed on the attached Form PTO-1449, and other information contained herein, be made of record in this application.

STATEMENT

As required under 37 C.F.R. 1.97(e), Applicant(s), through the undersigned, hereby state either that [check the appropriate space only if either (2) or (3) is checked on the previous page and the Statement is required]:

- 1. Each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application **not more than three months** prior to the filing of the Information Disclosure Statement; or
- 2. No item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this Statement after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to **any individual** designated in 37 C.F.R. 1.56(c) **more than three months** prior to the filing of the Information Disclosure Statement.

Respectfully submitted,



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FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT				ATTY DOCKET NO.: SYP-101DV APPLICANT: JINDAL, et al. SERIAL NO.: Divisional Application of U.S.S.N 09/267,993 FILING DATE: December 5, 2001				1927 U.S. PRO 10/006630 12/08/01	
U.S. PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		
	AA	5,313,061	5/17/94	Drew <i>et al.</i>	250	281			
	AB	5,306,619	4/26/94	Edwards <i>et al.</i>	435	6			
	AC	5,302,532	4/12/94	Lau	436	528			
	AD	5,288,644	2/22/94	Beavis <i>et al.</i>	436	94			
	AE	5,285,064	2/8/94	Willoughby	250	288			
	AF	5,281,397	1/25/94	Ligon <i>et al.</i>	422	89			
FOREIGN PATENT DOCUMENTS									
EXAM. INIT.		DOCUMENT NUMBER	DATE	COUNTRY CODE	CLASS	SUB CLASS	FILING DATE	ABSTRACT ONLY	ENGLISH LANG Y/N
	BA	WO 94/19694	01-SEP-94	PCT					
	BB	WO 94/14824	07-JUL-94	PCT					
	BC	WO 94/06017	17-MAR-94	PCT					
	BD	0 614 989 A1	14-09-94	EPO					
	BE	WO94/15951	7/21/94	PCT					
	BF	WO93/07168	4/15/93	PCT					
	BG	411503	02/6/91	EPO					
OTHER ART, JOURNAL ARTICLES, ETC.									
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)								
	CA	Wiesmüller <i>et al.</i> , "Novel Low-Molecular-Weight Synthetic Vaccine Against Foot-and-Mouth Disease Containing a Potent B-Cell and Macrophage Activator," <i>Vaccine</i> , 7:29-33 (February 1989).							
	CB	W. Kopaciewicz and F. E. Regnier, "A System for Coupled Multiple-Column Separation of Proteins," <i>Analytical Biochemistry</i> , 129:472-482 (1983).							
	CC	Waksman <i>et al.</i> , "Binding of a High Affinity Phosphotyrosyl Peptide to the Src SH2 Domain: Crystal Structures of the Complexed and Peptide -Free Forms," <i>Cell</i> , 72:779-790 (March 12, 1993).							
EXAMINER				DATE CONSIDERED					

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U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AG	5,272,337	12/21/93	Thompson et al.	250	288	
	AH	5,270,170	12/14/93	Schatz et al.	435	7.37	
	AI	5,270,163	12/14/93	Gold et al.	435	6	
	AJ	5,266,684	11/30/93	Rutter et al.	530	334	
	AK	5,240,616	8/31/93	Kato et al.	210	656	
	AL	5,208,458	5/4/93	Busch et al.	250	288	

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	CD	Michael Famulok and Jack W. Szostak, "In Vitro Selection of Specific Ligand-Binding Nucleic Acids," <i>Angew. Chem. Int. Ed. Engl.</i> , 31:979-988 (1992).
	CE	Kassel et al., "Evaluation of Packed Capillary Perfusion Column HPLC/MS/MS for the Rapid Mapping and Sequencing of Enzymatic Digests," <i>Analytical Chemistry</i> , 66(2):236-243 (January 15, 1994).
	CF	Mandana Sassanfar & Jack W. Szostak, "An RNA Motif that Binds ATP," <i>Letters To Nature</i> , pp. 550-553 (1993).
	CG	Gordon W. Niven and Peter G. Scurllock, "A Method for the Continuous Purification of Proteins by Affinity Adsorption," <i>J. of Biotechnology</i> , 3:179-190 (1993).
	CII	Huddleston et al., "Selective Detection of Phosphopeptides in Complex Mixtures by Electrospray Liquid Chromatography/Mass Spectrometry," <i>J. Am Soc Mass Spectrom.</i> , 4:710-717 (1993).
	CI	Mark A. Schennerman and Tedd J. Collins, "Determination of a Monoclonal Antibody Binding Activity Using ImmunoDetection," <i>Analytical Biochemistry</i> , 217:241-247 (1994).
	CJ	Afeyan et al., "Automated Real-Time Immunoassay of Biomolecules," <i>Nature</i> , 358:603-604 (August 1992).
	CK	Tim Clarkson and James A. Wells, "In Vitro Selection From Protein and Peptide Libraries," <i>Tibtech.</i> , 12:173-184 (May 1994).
	CL	Dan Medynski, "Synthetic Peptide Combinatorial Libraries," <i>Bio/Technology</i> , 12:709-710 (July 1994).
	CM	Wyatt et al., "Combinatorially Selected Guanosine-Quartet Structure is a Potent Inhibitor of Human Immunodeficiency Virus Envelope-Mediated Cell Fusion," <i>Proc. Natl. Acad. Sci. USA</i> , 91:1-5 (1994).
EXAMINER		DATE CONSIDERED

FORM PTO - 1449 INFORMATION DISCLOSURE STATEMENT				ATTY DOCKET NO.: SYP-101DV APPLICANT: JINDAL, <i>et al.</i> SERIAL NO.: Divisional Application of U.S.S.N. 09/267,993 FILING DATE: December 5, 2001			
U.S. PATENT DOCUMENTS							
EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AM	5,175,431	12/29/92	Eisele <i>et al.</i>	250	288	
	AN	5,175,430	12/29/92	Enke <i>et al.</i>	250	282	
	AO	5,160,840	11/3/92	Vestal	250	287	
	AP	5,143,852	9/1/92	Valkirs <i>et al.</i>	436	501	
	AQ	5,077,195	12/31/91	Bialock <i>et al.</i>	435	6	
	AR	5,071,909	12/10/91	Pappin <i>et al.</i>	525	54.1	
	AS	5,045,694	9/3/91	Beavis <i>et al.</i>	250	287	
OTHER ART, JOURNAL ARTICLES, ETC.							
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)						
	CN	Marks <i>et al.</i> , "Molecular Evolution of Proteins on Filamentous Phage," <i>J. of Biological Chemistry</i> , 267:16007-16010 (August 15, 1992).					
	CO	Marks <i>et al.</i> , "Human Antibody Fragments Specific for Human Blood Group Antigens from a Phage Display Library," <i>Bio/Technology</i> , 11:1145-1149 (October 1993).					
	CP	Keough <i>et al.</i> , "Antisense DNA Oligonucleotides II: the Use of Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry for the Sequence Verification of Methylphosphonate Oligodeoxynucleotides," <i>Rapid Communications in Mass Spectrometry</i> , 7:195-200 (1993).					
	CQ	Jamie K. Scott and Lisa Craig, "Random Peptide Libraries," <i>Analytical Biotechnology</i> , 5:40-48 (1994).					
	CR	Richard A. Houghten, "Peptide Libraries - Criteria and Trends," <i>Trends In Genetics</i> , 9(7):235-239 (July 1993).					
	CS	Günther Jung and Annette G. Beck-Sickinger, "Multiple Peptide Synthesis Methods and Their Applications," <i>Angewandte Chemie Int. Ed. Engl.</i> , 31:367-383 (1992).					
	CT	Giorgio Fassina, "Oriented Immobilization of Peptide Ligands on Solid Supports," <i>J. of Chromatography</i> , 591:99-106 (1992).					
	CU	Collet <i>et al.</i> , "A Binary Plasmid System for Shuffling Combinatorial Antibody Libraries," <i>Proc. Natl. Acad. Sci. USA</i> , 89:10026-10030 (1992).					
	CV	Lam <i>et al.</i> , "Rational Design of Potent, Bioavailable, Nonpeptide Cyclic Ureas as HIV Protease Inhibitors," <i>Science</i> , 263:380-384 (January 1994).					
EXAMINER				DATE CONSIDERED			

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U.S. PATENT DOCUMENTS

EXAM. INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AT	5,015,845	5/14/91	Allen et al.	250	288	
	AU	5,010,175	4/23/91	Rutter et al.	530	334	
	AV	5,003,059	3/26/91	Brennan	536	27	
	AW	4,999,493	3/12/91	Allen et al.	250	288	
	AX	4,937,200	6/26/90	Kumazawa et al.	436	518	

OTHER ART, JOURNAL ARTICLES, ETC.

EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	CW	Joly et al., "Disruption of PDGF Receptor Trafficking by Mutation of Its PI-3 Kinase Binding Sites," <i>Science</i> , 263:684-686 (February 1994).
	CX	Regan et al., "Purification and Characterization of the Human Platelet α_2 -Adrenergic Receptor," <i>J. of Biological Chemistry</i> , 261:3894-3900 (1986).
	CY	Lomasney et al., "Mammalian α_1 -Adrenergic Receptor," <i>J. of Biological Chemistry</i> , 261(17):7710-7716 (1986).
	CZ	Kang et al., "Antibody Redesign by Chain Shuffling from Random Combinatorial Immunoglobulin Libraries," <i>Proc. Natl. Acad. Sci. USA</i> , 88:11120-11123 (1991).
	CA1	Cerione et al., "Functional Reconstitution of the α_2 -Adrenergic Receptor with Guanine Nucleotide Regulatory Proteins in Phospholipid Vesicles," <i>J. of Biological Chemistry</i> , 261(8):3901-3909 (1986).
	CB1	James W. Putney Jr., "Excitement About Calcium Signaling in Inexcitable Cells," <i>Science</i> , 262:676-678 (October 1993).
	CC1	Raff et al., "Programmed Cell Death and the Control of Cell Survival: Lessons from the Nervous System," <i>Science</i> , 262:695-700 (29 October 1993).
	CD1	Lovejoy et al., "Structure of the Catalytic Domain of Fibroblast Collagenase Complexed with an Inhibitor," <i>Science</i> , 263:375-377 (21 January 1994).
	CE1	Wlodawer et al., "Hematopoietic Cytokines: Similarities and Differences in the Structures, with Implications for Receptor Binding," <i>Protein Science</i> , 2:1373-1382 (1993).
	CF1	Donald Van Dyke, "Software to Increase the Speed of DNA Sequence Assembly," <i>Sequencing and Synthesis/Application Note</i> , pp. 11-12 (October 1993).
	CG1	Richard Peters and Robert C. McKinstry, "Three-Dimensional Modeling and Drug Development," <i>Bio/Technology</i> , 12:147-150 (12 February 1994).
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	AY	4,902,891	2/20/90	Vestal	250	281	
	AZ	4,895,809	1/23/90	Schalbach <i>et al.</i>	436	518	
	AAI	4,883,958	11/28/89	Vestal	250	288	
	ABI	4,879,247	11/7/89	Ohlson	436	527	
	ACI	4,762,617	8/9/88	Stevens	210	635	
	ADI	4,705,616	11/10/87	Andresen <i>et al.</i>	204	299	
	AEI	4,205,058	5/27/80	Wagner <i>et al.</i>	424	1	
	AFI	5,340,477	8/23/94	Kauvar	210	198.2	
	AGI	5,252,216	10/12/93	Folena-Wasserman <i>et al.</i>	210	635	
OTHER ART, JOURNAL ARTICLES, ETC.							
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)						
	CII	Dr. Allen K. Murray, "Molecular Models in Enzyme Specificity Studies," <i>Scientific Computing & Automation</i> , pp. 23-26 (August 1993).					
	CII	Stephen M. Edgington, "Neuronal Signal Transduction: Will Controlling Phosphorylation Cure Disease?," <i>Bio/Technology</i> , 11:1237-1241 (November 1993).					
	CJ1	Stringham <i>et al.</i> , "Selective Non-Adsorption Preparative Chromatography: An Examination of Throughput, Mobile Phase Selection and Alternative Modes of Separation," <i>Preparative Chromatography</i> , 1(2): 179-193 (1989).					
	CK1	Nigel Beeley, "Peptidomimetics and Small-Molecule Drug Design: Towards Improved Bioavailability and <i>in vivo</i> Stability," <i>Tibtech</i> , 12:213-216 (1994).					
	CL1	Wieslaw M. Kazmierski, "Recent Advances in the Design and Synthesis of Small-Molecule Mimetic Drugs," <i>Tibtech</i> , 12:216-218 (June 1994).					
	CMI	Pieles <i>et al.</i> , "Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry: a Powerful Tool for the Mass and Sequence Analysis of Natural and Modified Oligonucleotides," <i>Nucleic Acids Research</i> , 21(14):3191-3196 (1993).					
	CNI	Djojonegoro <i>et al.</i> , "Bacteriophage Surface Display of an Immunoglobulin-Binding Domain of <i>Staphylococcus Aureus</i> Protein A," <i>Bio/Technology</i> , 12:169-172 (February 1994).					
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EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
	CO1	Stierandrová <i>et al.</i> , "Peptide-Encoding for Structure Determination of Nonsequenceable Polymers Within Libraries Synthesized and Tested on solid-Phase Supports," <i>Peptide Research</i> , 6(3):161-170 (1993).
	CPI	Lam <i>et al.</i> , "Rational Design of Potent, Bioavailable, Nonpeptide Cyclic Ureas as HIV Protease Inhibitors," <i>Science</i> , 263:380-384 (21 January 1994).
	CQ1	David G. Alberg and Stuart L. Schreiber, "Structure-Based Design of a Cyclophilin-Calcineurin Bridging Ligand," <i>Science</i> , 262:248-250 (8 October 1993).
	CRI	Robert L. Stevenson, "ISPPP '94," <i>Application Note</i> , pp. 41-42 (April 1995).
	CS1	Songyang <i>et al.</i> , "SH2 Domains Recognize Specific Phosphopeptide Sequences," <i>Cell</i> , pp. 767-778 (1993).
	CT1	Susan L. Danheiser, "Structure-Based Small Molecule Design Emerges as Key Biotech Drug Development Strategy," <i>Genetic Engineering News</i> , p.1, p. 36 (July 1993).
	CU1	Jenison <i>et al.</i> , "High-Resolution Molecular Discrimination by RNA," <i>Science</i> , 263:1425-1429 (11 March 1994).
	CV1	Moyle <i>et al.</i> , "Co-Evolution of Ligand-Receptor Pairs," <i>Nature</i> , 368:251-255 (17 March 1994).
	CW1	Peter J. Schatz, "Use of Peptide Libraries to Map the Substrate Specificity of a Peptide-Modifying Enzyme: a 13 Residue Consensus Peptide Specifies Biotinylation in <i>Escherichia Coli</i> ," <i>Bio/Technology</i> , 11:1138-1143 (October 1993).
	CX1	Jeffrey W. Jacobs and Stephen P. A. Fodor, "Combinatorial Chemistry-Applications of Light-Directed Chemical Synthesis," <i>Tibtech</i> , 12 (January 1994).
	CY1	Waksman <i>et al.</i> , "Binding of a High Affinity Phosphotyrosyl Peptide to the Src SH2 Domain: Crystal Structures of the Complexed and Peptide-Free Forms," <i>Cell</i> , 72:779-790 (March 12, 1993).
	CZ1	Chait <i>et al.</i> , "Protein Ladder Sequencing," <i>Science</i> , 262:89-92 (1 October 1993).
	CA2	Furka <i>et al.</i> , "General Method for Rapid Synthesis of Multicomponent peptide Mixtures," <i>Peptide & Protein Research</i> , 37:487-493 (1991).
	CB2	Deres <i>et al.</i> , "In Vivo Priming of Virus-Specific Cytotoxic T Lymphocytes with Synthetic Lipopeptide Vaccine," <i>Nature</i> , 342:561-564 (30 November 1989).
	CC2	Yarovsky <i>et al.</i> , "High Performance Liquid Chromatography of Amino Acids, Peptides and Proteins," <i>J. of Chromatography</i> , 660:75-84 (1994).
	CD2	Banner <i>et al.</i> , "A Method for Characterization of Endogenous Ligands to Orphan Receptors Belonging to the Steroid Hormone Receptor Superfamily-Isolation of Progesterone from Pregnancy Plasma Using Progesterone Receptor Ligand-Binding Domain," <i>Analytical Biochemistry</i> , 200:163-170 (1992).
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OTHER ART, JOURNAL ARTICLES, ETC.		
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)	
CE2	Youngquist <i>et al.</i> , "Matrix-Assisted Laser Desorption Ionization for Rapid Determination of the Sequences of Biologically Active Peptides Isolated From Support-Bound Combinatorial Peptide Libraries," <i>Rapid Communications in Mass Spectrometry</i> , 8:77-81 (1994).	
CF2	Brooks Shera, "Speed Sorts Molecules," <i>Inside R & D</i> , 22(35):1-2 (September 1, 1993).	
CG2	Stringham <i>et al.</i> , "Selective Non-Adsorption Preparative Chromatography: An Examination of Throughput, Mobile Phase Selection and Alternative Modes of Separation," <i>Preparative Chromatography</i> , 1(2):179-193 (1989).	
CH2	Stefan Stevanovic and Günther Jung, "Multiple Sequence Analysis: Pool Sequencing of Synthetic and Natural Peptide Libraries," <i>Analytical Biochemistry</i> , 212:212-220 (1993).	
CJ2	Steven A. Benner, "Catalysis: Design Versus Selection," <i>Science</i> , 261:1402-1403 (10 September 1993).	
CJ2	Edward J. Reber and Carl O. Pabo, "Zinc Finger Phage: Affinity Selection of Fingers with New DNA-Binding Specificities," <i>Science</i> , 263:671-673 (4 February 1994).	
CK2	Chaiken, IM, "Analytical Affinity Chromatography In Studies Of Molecular Recognition In Biology: A Review," <i>J. Chromatogr.</i> , 376:11-32 (1986).	
CL2	Kerr, JM <i>et al.</i> , "Identification Of Antibody Mimotopes Containing Non-Natural Amino Acids By Recombinant And Synthetic Peptide Library Affinity Selection Methods," <i>Bioorg. Med. Chem. Lett.</i> 3:463-468 (1993).	
CM2	Zuckermann, RN <i>et al.</i> , "Identification Of Highest-Affinity Ligands By Affinity Selection From Equimolar Peptide Mixtures Generated By Robotic Synthesis," <i>Proc. Natl. Acad. Sci. USA</i> , 89:4505-4509 (1992).	
CN2	Chen, Z. <i>et al.</i> , "Identification Of A Soluble Salicylic Acid-Binding Protein That May Function In Signal Transduction," <i>PNAS</i> , 88:8179-8183 (1991).	
CO2	Lu <i>et al.</i> , "The Identification and Characterization of Collagen Receptors Involved in HeLa Cell-Substratum Adhesion," <i>J. Biol. Chem.</i> , 264(23):13546-13558 (1989).	
CP2	Houghten <i>et al.</i> , "The Use of Synthetic Peptide Combinatorial Libraries for the Identification of Bioactive Peptides," <i>Biotechniques</i> , 13(3): 412-421 (1992).	
CQ2	Houghten, "Soluble Combinatorial Libraries: Extending the Range and Repertoire of Chemical Diversity," <i>METHODS: A Companion to Methods in Enzymology</i> , 6:354-360 (1994).	
CR2	Janis <i>et al.</i> , "Dual-Column Immunoassays Using Protein G Affinity Chromatography," <i>Anal. Chem.</i> , 61:1901-1906 (1989).	
CS2	Fassina <i>et al.</i> , "Design of hydrophobically complementary peptides for Big Endothelin affinity purification," <i>Int. J. Peptide Res.</i> , 39:540-548 (1992).	
CT2	Ghosh <i>et al.</i> (Abstract), "Reversed Phase Extraction Chromatographic Study of Copper-II with a High Molecular Weight Carboxylic Acid and Its Analytical Applications," <i>Indian J. Chem. Sect. A, Inorg. Phys. Theor. Anal.</i> , 28(9):814-816 (1989).	

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OTHER ART, JOURNAL ARTICLES, ETC.			
EXAM. INIT.	OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication)		
	CU2	Pawlowski <i>et al.</i> , "Overexpression and mutagenesis of the cDNA for rat liver 3-alpha-hydroxysteroid/dihydrodioldehydrogenase: Role of cysteines and tyrosines in catalysis," <i>J. of Biol. Chem.</i> , 269:13502-13510 (1994) (Abstract).	
EXAMINER		DATE CONSIDERED	

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